

An Essay  
on the  
Signs of the late Intermittent epidemic  
as they appeared  
in  
the counties of Chester, Delaware and Montgomery  
by  
William Plumstead  
B  
Pennsylvania  
Member of the Philadelphia Medical Society

November the 6<sup>th</sup> 1824

In the  
 Bay of  
 in the  
 ground  
 It was  
 when I  
 returned  
 I was  
 1800  
 since  
 every  
 I never  
 I gave  
 later on  
 but soon  
 similar  
 We, b  
 as the  
 The  
 the

On the Sequela of the Intermittent epidemic, as they appeared in the practice of my preceptor in the counties of Chester, Delaware, and Montgomery.

It may not be improper to premise my remarks upon this subject by a short history of the origin, nature, and treatment of the epidemic itself.

It made its first appearance in the Autumn of 1820 on the banks of the Schuylkill, a few miles above Norristown, from which it spread in almost every direction attacking indiscriminately persons of every age, colour, and sex.

It generally assumed the characteristics of a regular Intermittent fever so accurately defined by Dr. Cullen, but sometimes put on a very deceptive appearance, sometimes affecting parts of the body only, as the eyes, head, limbs &c. &c., being affected. Delirium also, frequently attended the paroxysms.

The Quotidian and Tertian intervals were much the more frequent and tractable, the Quartan

*[Faint, illegible handwriting on a lined page, likely bleed-through from the reverse side.]*

*[Faint, illegible handwriting on the right edge of the page, likely bleed-through from the reverse side.]*



low  
low  
attracted  
to the  
the water  
particular  
they  
then we  
entirely  
but  
however  
land  
of a  
disposal  
they  
into  
is free  
opposed  
when  
stood.

dams, and stagnant pools. But this is not the fact. Cases have occurred in every season, and in every situation. Intermittents were very prevalent in the Spring and Autumn of 1822, when the thermometer was fluctuating between 50 and 70 degrees a temperature far below that at which eruptions arise. They have occurred in every thirder month and this year were confined almost exclusively to elevated situations.

But that Intermittents do appear more frequently in seasons of drought and in the neighbourhood of dams and stagnant pools by the concomitant agency of Marsh Miasm, there can be no doubt. Hence I infer that Marsh Miasma is not the predisposing but an exciting cause. The predisposing cause with the nature of which we are wholly unacquainted, is present throughout the whole epidemic year is capable of being excited into action in all seasons, and under every circumstance, independantly of Marsh Miasma. The various other exciting causes, are  
 instruments

*[Faint, illegible handwriting on lined paper, likely bleed-through from the reverse side.]*

valued  
bit of  
active  
It is  
of the  
pleasure  
the s  
was  
the o  
of ge  
rel  
haste  
sals  
in p  
pleas  
vices  
spice  
hose  
in day  
The



inclement weather, damp rooms, night air, ~~Wagner~~ <sup>Wagner</sup> did, &c.,  
but of these Marsh Miasma is decidedly the most  
active.

It is not my design to detail minutely the treatment  
of the epidemic, but to pass on to the diseases which  
followed it. I will briefly remark, however that after  
the system was duly prepared by emetics, cathartics,  
venesection, &c., the following remedies were successful, in  
the order in which they are related: The sulphate  
of quinine, the extract of quinine, the essential  
salt of bark; bark in substance either alone or in com-  
bination with opium, with salt of tartar and ses-  
santina, with aromatics, or with rhubarb, gamboge  
in pills or solution, opium, alone, cupatorium per-  
foliatum, pollen of hops, sulphur, charcoal, blue  
vitriol, turpentine; ~~kiss~~ in combination with  
opium; hira pica, spiders web, log-wood bark and  
blossoms, red oak, american poplar, and other  
indigenous articles.

The excitement of the passions of the mind <sup>of-  
fered</sup>

the  
 the  
 by  
 the  
 of the  
 is like  
 approach  
 custom  
 ing cal  
 treat  
 the  
 about  
 it by  
 being  
 a how  
 as  
 how  
 about  
 affe  
 fac

and a number of his most recent after various  
other remedies had been tried with the usual result  
in his condition. The result.

Mr. D. has been much afflicted with attacks  
of the gutta serena for the last two years, but became  
so debilitated that the attending physician was  
opinionated he would never recover. He was  
indeed so weak that he declined ever be-  
ing carried to see a physician that had not his  
throat permanently increased his disease.

Mr. D. was a patient and regularly for  
about two months without being able to remove  
it in any of the usual remedies. I am fully con-  
vinced the disease was in the throat to be cured  
in another, and in this way was stored with  
a remedy which debilitated him very much, the  
disease being chronic and lasting even at present.  
about his throat. It was much afflicting and so  
effectually cured that he has never had another  
attack since, although it is now five years since

1. 1. 1.

2. 2. 2.

3. 3. 3.

4. 4. 4.

5. 5. 5.

6. 6. 6.

7. 7. 7.

8. 8. 8.

9. 9. 9.

10. 10. 10.

11. 11. 11.

12. 12. 12.

13. 13. 13.

14. 14. 14.

15. 15. 15.

16. 16. 16.

17. 17. 17.

18. 18. 18.

19. 19. 19.

20. 20. 20.

21. 21. 21.

22. 22. 22.

to meet his fellow side.

7

Mr. H. had long been afflicted with the  
pruriginous pruritus. It was induced by the  
stagnation on his back, pruritus to the surface of the  
paragon. His hair started and changed him over  
his head into the river. Although very much that  
he was able to reach the shore without assistance,  
and had the opportunity to find that his, as  
crops was pruritus and his disease more tend-  
er him.

A number of other curious cases might be related  
such as a case being effected by being upset in a  
boat, by breaking through the ice &c. &c.

In the cases of infants and delicate adults as  
when there was instability of stomach each one  
made best cataplasms and each jacket were of the  
utmost importance.

Deaths very rarely occurred and only in patients  
whose constitutions were undermined by intemper-  
ance or previous disease.

Finch.

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

Persons having recovered from an attack of our p.  
fever were ever prone to adopt the best practices  
of which were to avoid the exciting causes, as far as pos-  
sible, to keep the bowels daily open, and above all  
to wear flannel next the skin. If the utility of  
which in the prevention of fevers we have the con-  
curring opinion of many eminent practitioners con-  
firmed by experimental observation.

*The Sequela febrilis.*

Indyer in his *practica dissertation* on fever, remarks.  
That a regular Quotidian, intermittent is more apt  
to subject patients to diseases arising out of itself,  
than a quotidian and a Tertian more than a Quo-  
tidian. This, however, did not appear to be the case  
as regards our epidemic. The Quotidian, Tertian and  
Quartan were alike productive of morbid Sequela:  
which may be divided into primary and secondary.  
The primary, were, continuations of the fever and  
typhus, debility, inflammation of the lungs, enteric  
fever, &c.

1811  
1812  
1813  
1814  
1815  
1816  
1817  
1818  
1819  
1820  
1821  
1822  
1823  
1824  
1825  
1826  
1827  
1828  
1829  
1830  
1831  
1832  
1833  
1834  
1835  
1836  
1837  
1838  
1839  
1840  
1841  
1842  
1843  
1844  
1845  
1846  
1847  
1848  
1849  
1850  
1851  
1852  
1853  
1854  
1855  
1856  
1857  
1858  
1859  
1860  
1861  
1862  
1863  
1864  
1865  
1866  
1867  
1868  
1869  
1870  
1871  
1872  
1873  
1874  
1875  
1876  
1877  
1878  
1879  
1880  
1881  
1882  
1883  
1884  
1885  
1886  
1887  
1888  
1889  
1890  
1891  
1892  
1893  
1894  
1895  
1896  
1897  
1898  
1899  
1900



ment of the abdomen, and constipation. The secondary stage is a result of the primary ones dyspepsia, leucorrhoea, jaundice, diarrhoea and dysentery. There were no instances of hæmorrhage, of tachycardia. The result of former epidemics.<sup>3</sup>

Indurations of the liver and spleen have been improperly attributed to the use of the Peruvian bark, from its acting specifically and without any sensible evacuation. They are no doubt induced by the excessive quantity of blood which is propelled from the capillaries into the large intestine vessels, during the paroxysms, hæmorrhoids, inflammation and subsequent induration.

The characteristics of induration of the liver, were, tumefaction, and hardness of that viscus accompanied with an obtuse pain in the right hypochondriac region which was increased by pressure, bowels constipated, face pale. The pulse was full, sometimes hard and corded.

Saturator



Inflammation of the spleen had nearly the same characteristics; the pain and tenderness, however, being on the opposite side.

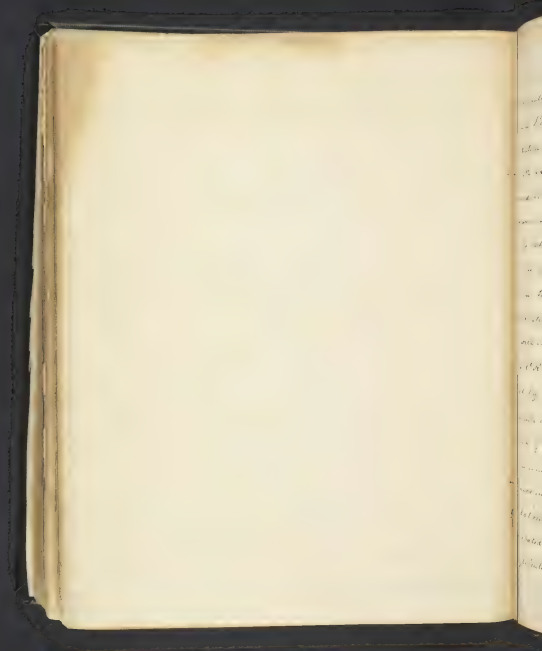
The remedies most efficacious in either case divided themselves into general and topical; the former, were venesection, mercurial purgatives and if the cases proved obstinate mercury and iodine to produce phlogism were found successful remedies.

The topical remedies were blisters, cups, leeches, nitre, mustard and baths &c.

Debility was a very frequent effect of our epidemic and demanded our immediate attention.

It remains most efficient in restoring the system to its usual vigour, were, the vegetable bitter the cinchona, mineral acids, chalybeates, moderate exercise in the open air and the cold bath. The diet should be nutritive and moderately stimulating.

Inflammation of the lungs was rather conspicuous of our epidemics. It occurred chiefly in persons not usually predisposed to pulmonary affections. The in-  
-ordinate



extensive decomposition of blood to those around dis-  
cuss the hæmorrhage was so small the cause of teleph-  
antism. The symptoms which attended it, were cough  
with expectoration during the intermission, dyspnea  
and cough without expectoration during the hæm-  
orrhage with a sense of constriction about the chest.  
In later years hæmorrhages continued.

The remedies adopted to the removal of this disease,  
were topical depletion by cups, leeches, blisters, dia-  
phoretics, expectorants &c. &c. & this treatment  
will in a few instances, probably be the result.  
W. H. N. in the Autumn of 1822 was attack-  
ed by an intermittent with a quotidian interval,  
which as well as subequant relapses yielded to the  
use of the peruvian bark. In the Autumn of 1823  
he was again attacked (being much exposed to the  
evening and morning damps) which has left him  
labouring under a cough, gradually increasing, un-  
abated by all the remedies he has tried, either  
popular or those administered under medical ad-  
vice.

occu

the ph

functio

the an

large

most

not h

ing

The m

cells.

Conclu

of m.

variety.

It con

the

Prin

taken

11  
vice. The symptoms are such, as would lead to  
the opinion, that it will finally terminate in con-  
firm'd Pyloric Ulceration and death.

In some cases the stomach was enormously en-  
larged, exhibiting fibres in appearance: yet by the  
most careful examination the presence of water could  
not be detected. To what this tumefaction was due,  
my I am unable to give even satisfactory solutions.  
It sometimes, & often however, in every instance, to  
catarrhic motions.

Constipation was by far the most common  
of our symptoms. It was not so common to be met  
with when the face being of a purplish colour.  
It was in most instances very readily removed by  
the following prescription.

Ry Rad. Albi Scti: ʒij

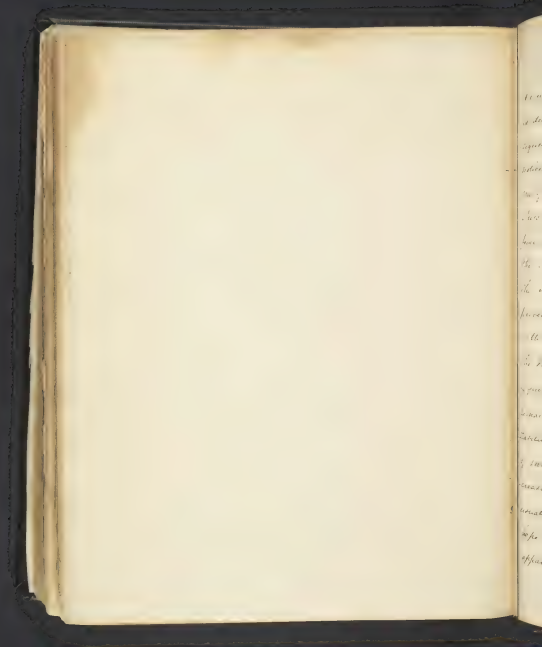
Albas

ʒj

Sub. Acut. Hyd: ʒij Albas

Since no satisfactory cure is to be had, which were  
taken at bed time according to circumstances.

Several





Several well characterized cases of dyspepsia appeared during the prevalence of our epidemic as a consequence of it; a disease which has not, I believe, been noticed as a result of former intermittent epidemics: one of the most interesting of which is the following. Miss B. aged 37 lost an attack of intermittent fever on the 11th of June 1820 and subsequently, in the Autumn of 1822 & 23 with repeated attacks. In the Summer of 1824 she was again attacked which proved much more obstinate and was accompanied with nausea, irritability of stomach and loss of appetite. The intermittent was however removed by the use of quinine, preceded by cathartics, but dyspepsia remained as a consequence. There was great irritability of stomach and an almost incredible discharge of mucus from that source, which gradually increased rather than diminished by the use of the usual remedies for such affections until every hope of her recovery had vanished and she was apparently on the very brink of the grave. The

infection

after

call

and

but

as

and

for

more

which

Prof

and

such

Prof

and

in

and

and

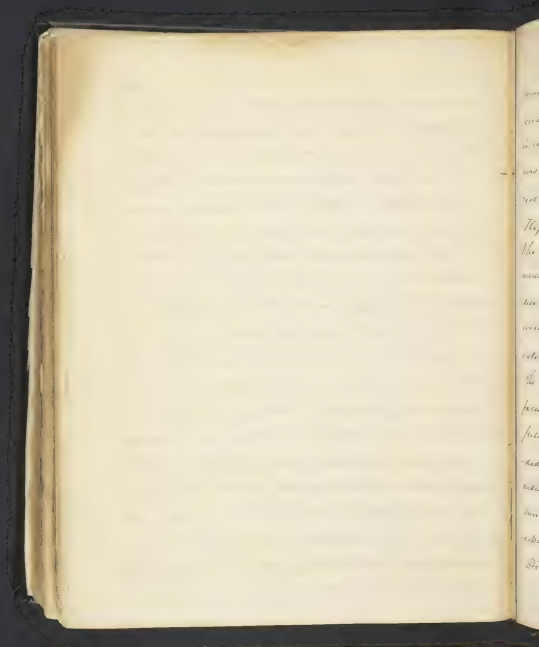
and

and

infusion of mustard was then resorted to as a cathartic. Its effect was very astonishing. In the following morning the discharge was abundant about one half, and continued to diminish daily for about three weeks, when it entirely ceased. During which time the appetite slowly improved, his strength increased and after about two months, he was in the enjoyment of health, which has continued to the present time.

Dropsies were a frequent result of former intermittents, but in the present epidemic, in the practice of my preceptor, one case only occurred.

Dropsies may be either a consequence of visceral obstructions or of debility. The case above mentioned in which anasarca and oedema were combined, was the result of the latter. The abdomen and limbs of the patient were very much enlarged, the fluctuation of water was evident accompanied with coolness, great debility and



emaciation, the disease yielded to cathartics of  
 cream of tartar and jalap followed by calomel  
 in combination <sup>with</sup> various diuretics. His strength  
 was restored by a combination of bark, sugar  
 root, and orange peel in infusion.

Hepatic tumours not unfrequently prevent  
 the bile from getting into the ~~circulation~~ and  
 occasion it to be absorbed, thus producing jaun-  
 dice. The symptoms which attended jaundice  
 were, yellowness of the skin, particularly of the  
 external membranes of the eyes, obtuse pain in  
 the region of the liver, bitter taste in the mouth,  
 face pale, urine high coloured. The pulse was  
 full and frequent. The disease generally yield-  
 -ed to blisters, cups &c. to the region of the liver  
 aided by mercurial purgatives. In a few cases  
 mercury and nitric acid, in small doses was ne-  
 cessary.

Diarrhoea occasionally was blended with one  
 of the <sup>opium</sup>

friends  
 around  
 and  
 need  
 not  
 have to  
 others  
 I am  
 friends  
 with  
 one  
 the  
 rest  
 days  
 affect  
 friends  
 game  
 a

epidemic and occasionally followed it. In the former case it was found good practice, to combine cinchona or sulphate of quinine with laudanum, and powdered galls or kino, &c. In the latter powdered galls and cinnamon with weak brandy, <sup>today</sup> had the happiest effect, Tincture of Rhubarb and laudanum was also found salutary. The vegetable bitters were administered at the same time.

During the Autumn of 1823, the dysentery followed in a number of cases our epidemic, and in others was blended with it. It became a subject of deliberation, with my preceptor, whether in the exhibition of his remedies he should have an eye to both diseases or direct his whole force exclusively at one. A few days observation, however, ~~convinced~~ <sup>convinced</sup> him that the affection of the bowels only demanded his attention; as in every case. The Intermittent fever gave place to the dysentery; which I consider a strong argument in favour of cathartic <sup>remedies</sup>

The first of these is the  
second is the  
third is the  
fourth is the  
fifth is the  
sixth is the  
seventh is the  
eighth is the  
ninth is the  
tenth is the  
eleventh is the  
twelfth is the  
thirteenth is the  
fourteenth is the  
fifteenth is the  
sixteenth is the  
seventeenth is the  
eighteenth is the  
nineteenth is the  
twentieth is the  
twenty-first is the  
twenty-second is the  
twenty-third is the  
twenty-fourth is the  
twenty-fifth is the  
twenty-sixth is the  
twenty-seventh is the  
twenty-eighth is the  
twenty-ninth is the  
thirtieth is the

dis  
year  
with  
a b  
typh  
salu  
habe  
first  
hall  
de  
of the  
by ig  
the  
P  
prop  
of Ben  
the  
between



edies in the treatment of our epidemic. In the year 1822, sugar of lead, was administered in combination with Spicacuan and opium with the happiest effect in this disease but in 1823, the cases assuming a typhoid character, it was found rather prejudicial than salutary. Spicacuan and opium were however, exhibited with great advantage, the prime via being first cleared by mild laxatives. Oleaginous substances, palliative enemata, mucilaginous drinks, epispastics &c. were used as auxiliaries, to the no small relief of the suffering patients. In 1824, the cases were highly inflammatory, admitting of the free use of the lancet. The *saccharum saturni* was not again resorted to. Permit me to conclude this essay, by presenting to the professors of the medical department of the University of Pennsylvania my warmest acknowledgements for the valuable instructions, I have received from their lectures and my sincere wishes for their individual happiness.

Bivoli, balatogea.

